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Mar 16, 1992

PUB-NO: JP404082898A

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TITLE: NEW PEPTIDE AND ANGIOTENSIN TRANSFERASE INHIBITOR

PUBN-DATE: March 16, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

MOTOI, HIROBUMI

ASSIGNEE-INFORMATION:

NAME

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NISSHIN FLOUR MILLING CO LTD

APPL-NO: JP02194781

APPL-DATE: July 25, 1990

INT-CL (IPC): C07K 5/08; A61K 37/64; C12N 9/99

ABSTRACT:

NEW MATERIAL: A peptide (salt) of the formula.

USE: A hypotensive agent or angiotensin transferase inhibitor.

PREPARATION: For example, whey protein is dispersed and dissolved in 0.03M hydrochloric acid, mixed with distilled water, adjusted to a pH of 2.0 with 1N hydrochloric acid, reacted with pepsin at 13°C for 15hr, adjusted to a pH of 4.4 with 5N sodium hydroxide aqueous solution, reacted with an Aspergillus- originated aspartic protease at 45°C for 5hr, adjusted to a pH of 6.0 with 5N sodium hydroxide aqueous solution and subsequently heated at 90°C for 20hr to inactivate the enzyme. The treated solution is cooled to room temperature and centrifuged to recover the supernatant. The supernatant is lyophilized to obtain a peptide mixture, which is purified by ion exchange chromatography and subsequently by high performance liquid chromatography to provide the peptide of the formula.

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